

ABSTRACT OF THE DISCLOSURE

A tool for optimizing the layout of a microdevice adds fragmentation points to polygons in a first hierarchical database layer in a manner suitable for application of a tool to apply a resolution enhancement technique (RET) such as optical and process
5 correction (OPC). Portions of polygons in a database level that interact with polygons of a second level in the database are promoted to the second database level, and refragmented. The RET operates on the polygons of the first and second levels of the database to determine how polygons of each of the first and second levels should be adjusted, if necessary, such that the layout is optimized.

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